

PROCESS FOR SEPARATING GAS COMPONENT BY VACUUM SWING ADSORBING METHOD

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Inventor: RABUI KUMAA; TARITSUKU NAHEIRI; CHIYAARUZU
FURANKURIN WATSUTOS
Applicant: AIR PROD & CHEM
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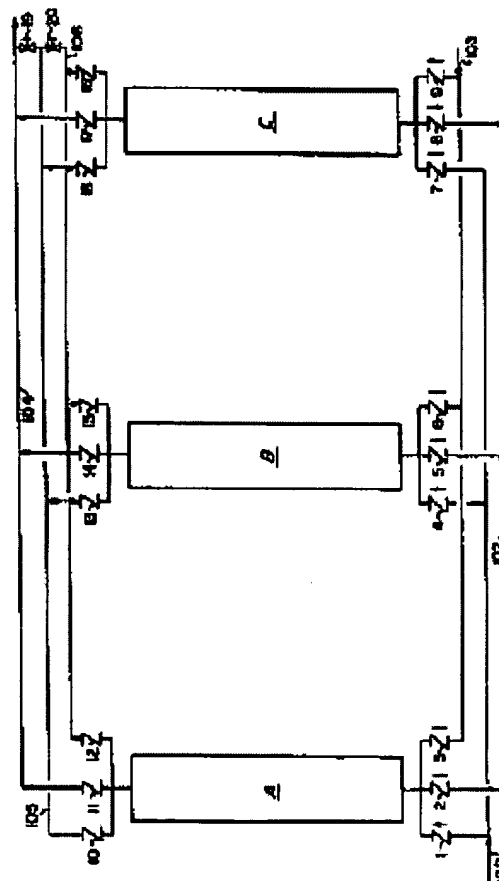
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Abstract of JP6254336

PURPOSE: To provide such an operation method which can yield a production gas at a high recovery rate and reduce the consumption of adsorbents and electric power consumption per production amount when separating and acquiring gaseous components from a gaseous mixture by a vacuum swing adsorption method using many adsorption beds. **CONSTITUTION:** When a less strongly adsorbable component is acquired as a product by using a plurality of the adsorption beds packed with the adsorbents capable of selectively adsorbing a strongly adsorbable component, this acquisition is superposed on the counter-current-like exhaust stage in a plurality of the adsorption beds after the initial decompression operation for supplying a purge gas. The pressure equalization operation between the adsorption beds is carried out by using the counter-current-like exhaust gases simultaneously discharged from the at least two adsorption beds and the gaseous mixture composed of the less strongly adsorbable component and the feed gas for repressurization of the adsorption beds in combination, by which the component gaseous product is obtained at the high recovery rate.



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